IP [illegible]

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[illegible]

- [illegible] TCP/IP [illegible]

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[illegible]

- [illegible]
  - [illegible] IP [illegible]
  - [illegible]
  - [illegible] ARP/RARP [illegible]
  - [illegible]

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[illegible]

- **IP [illegible]**
- [illegible]
- [illegible]

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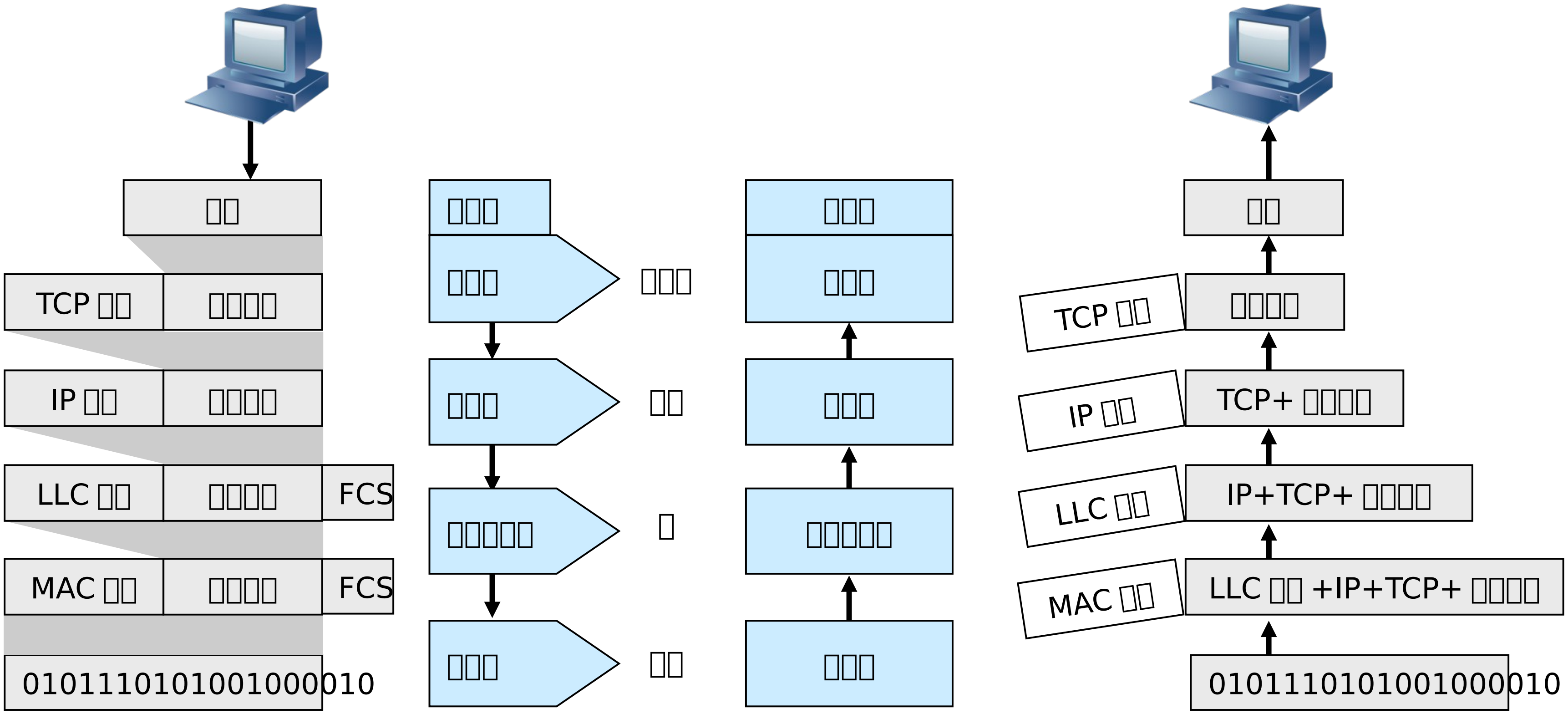

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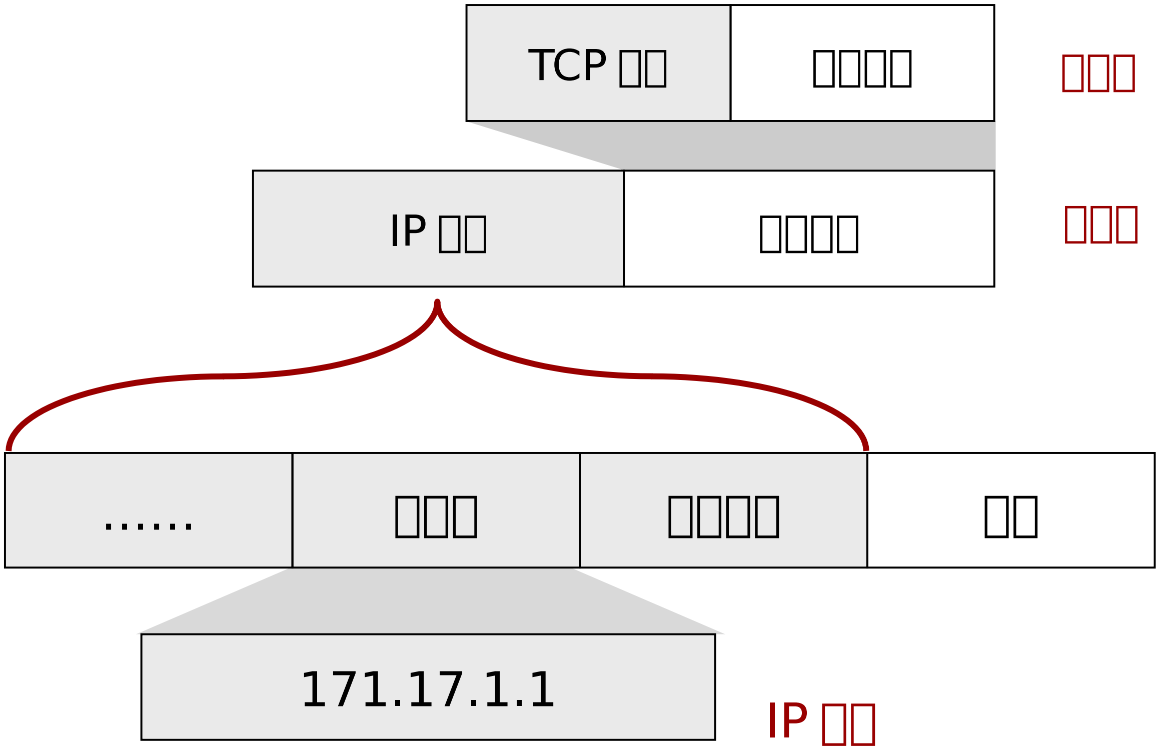

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IP [illegible]

- IP [illegible] 32 [illegible]
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- IP [illegible]
  - [illegible]
  - [illegible]

IP [illegible]

[illegible]	[illegible]

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IP □□□□

A □□□ **1.0.0.0~126.255.255.255**

0	Network(7bit)	Host(24bit)

B □□□ **128.0.0.0~191.255.255.255**

1	0	Network(14bit)	Host(16bit)

C □□□ **192.0.0.0~223.255.255.255**

1	1	0	Network(21bit)	Host(8bit)

D □□□ **224.0.0.0~239.255.255.255**

1	1	1	0	□□□□

E □□□ **240.0.0.0~255.255.255.255**

1	1	1	1	0	□□

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[illegible] IP [illegible]

[illegible]	[illegible]	[illegible]	[illegible]
Any	[illegible]“ 0”	[illegible]	[illegible]
Any	[illegible]“ 1”	[illegible]	[illegible]
127	Any	[illegible]	[illegible]
[illegible]“ 0”		[illegible]	[illegible] VRP [illegible] [illegible]
[illegible]“ 1”		[illegible]	[illegible]

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□□ IP □□

- □□ IP □□
  - 10.0.0.0~10.255.255.255
  - 172.16.0.0~172.31.255.255
  - 192.168.0.0~192.168.255.255

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[illegible]

- [illegible] masking [illegible]
- [illegible] IP [illegible]
- [illegible] 1 [illegible] 0

[illegible] B [illegible] 255.255.0.0

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[illegible]

IP [illegible]	192.168.1	.100
[illegible]	255.255.255	.0
[illegible]	192.168.1	.0

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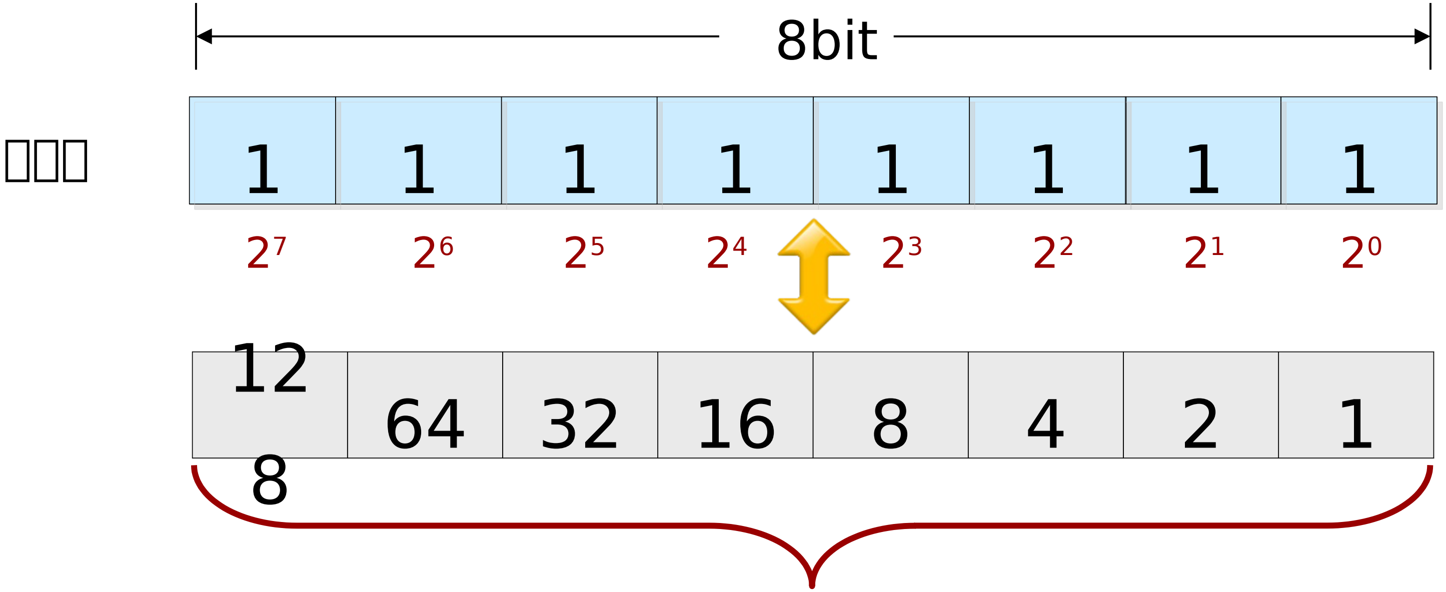
□□□□



□□□□□□255

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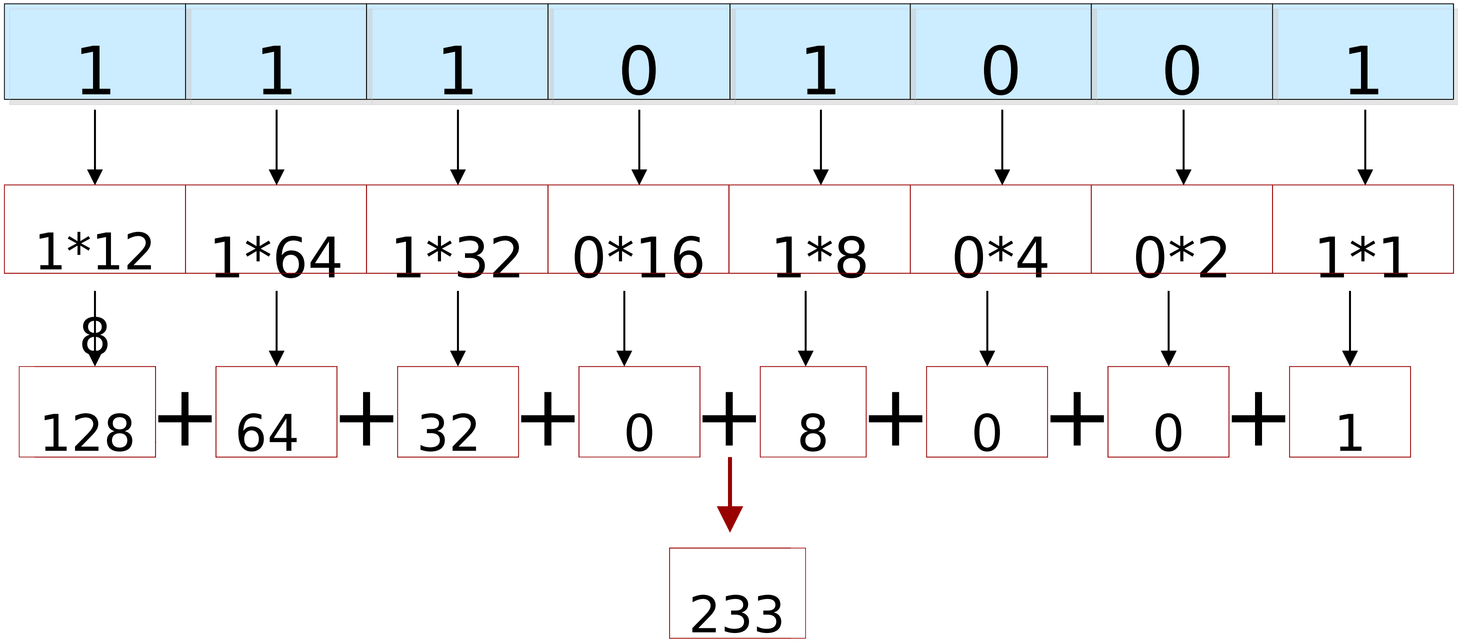
[illegible]

[illegible]



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HUAWEI

IP [illegible]

- IP [illegible] 192.168.1.11([illegible])

[illegible] 8 [illegible]	[illegible] 8 [illegible]	[illegible] 8 [illegible]	[illegible] 8 [illegible]
$2^7 2^6 2^5 2^4 2^3 2^2 2^1 2^0$	$2^7 2^6 2^5 2^4 2^3 2^2 2^1 2^0$	$2^7 2^6 2^5 2^4 2^3 2^2 2^1 2^0$	$2^7 2^6 2^5 2^4 2^3 2^2 2^1 2^0$
1 1 0 0 0 0 0 0	1 0 1 0 1 0 0 0	0 0 0 0 0 0 0 1	0 0 0 0 1 0 1 1
192	168	1	11

[illegible]

11000000.10101000.00000001.000010
11

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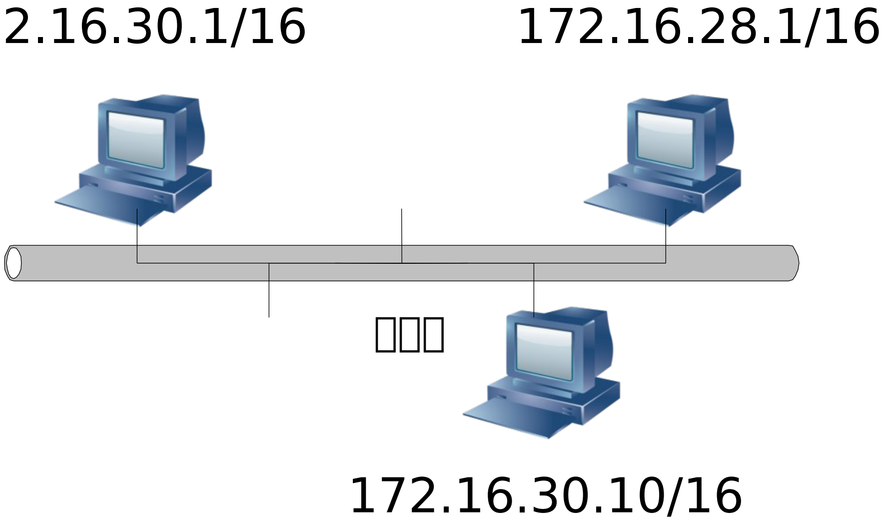
[illegible]

- [illegible] B [illegible] 172.16.0.0 [illegible]

  [illegible] 255.255.0.0



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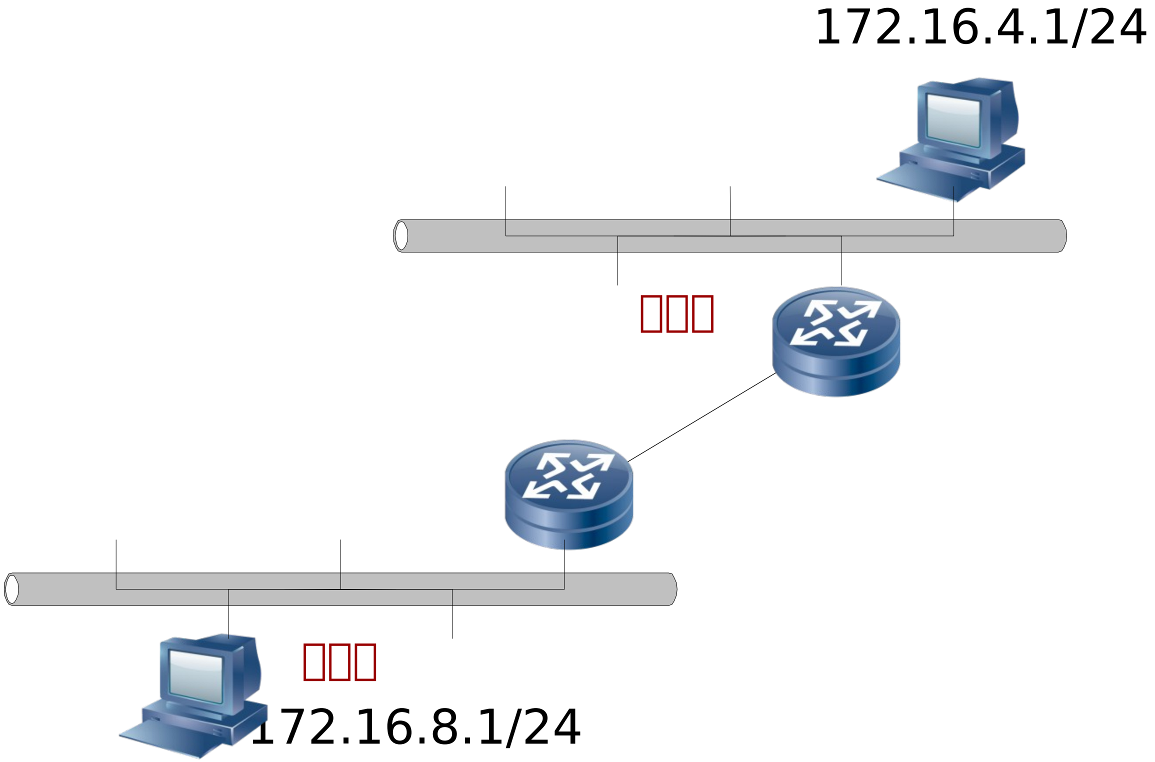
□□□□□

- B □□□ 172.16.0.0



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HUAWEI

[illegible]

IP [illegible]	192	168	1	7
	11000000	10101000	00000001	00000111
[illegible]	255	255	255	240
	11111111	11111111	11111111	11110000

[illegible]: 8 + 8 + 8+ 4 = 28

[illegible]: 192 . 168 . 1 . 7 / 28

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[illegible]

IP [illegible]: 192.168.1.7/28

IP [illegible]	192	168	1	7
	11000000	10101000	00000001	00000111
[illegible]	255	255	255	240
	11111111	11111111	11111111	11110000
[illegible] ([illegible])	11000000	10101000	00000001	00000000
[illegible]	192.168.1.0/28			

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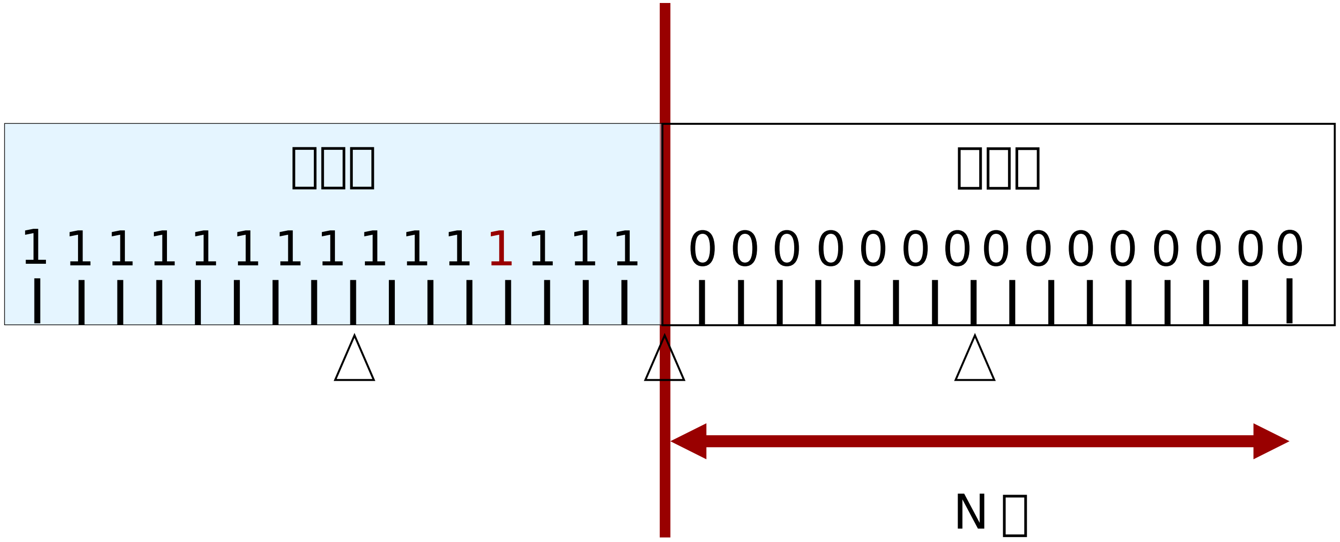
[illegible]



[illegible] 2^n

[illegible] : $2^n - 2$

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[illegible]

IP [illegible] 192.168.1.100/28

[illegible]

/28=255.255.255.240

11111111 [illegible] 11111111 [illegible] 11111111 [illegible] 1
1110000

28bits [illegible]

4bits [illegible]

[illegible] 2^4

[illegible] : $2^4 -2$

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[illegible]

- [illegible] C [illegible] 201.222.5.0 [illegible] 20 [illegible] [illegible] 5 [illegible]

[illegible]	[illegible]
201.222.5.8/29	201.222.5.9~201.222.5.14
201.222.5.16/29	201.222.5.17~201.222.5.22
……	……
201.222.5.232/29	201.222.5.233~201.222.5.238
201.222.5.240/29	201.222.5.241~201.222.5.246

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B [illegible]

[illegible]	172.16.2.0
[illegible]	172.16.2.1 [illegible] 172.16.2.254
[illegible]	172.16.2.255

IP [illegible]	172.16.2.120
[illegible]	255.255.255.0

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C [illegible]

[illegible]	192.168.5.120
[illegible]	192.168.5.121- 192.168.5.126
IP [illegible]	192.168.5.121
[illegible]	255.255.255.248

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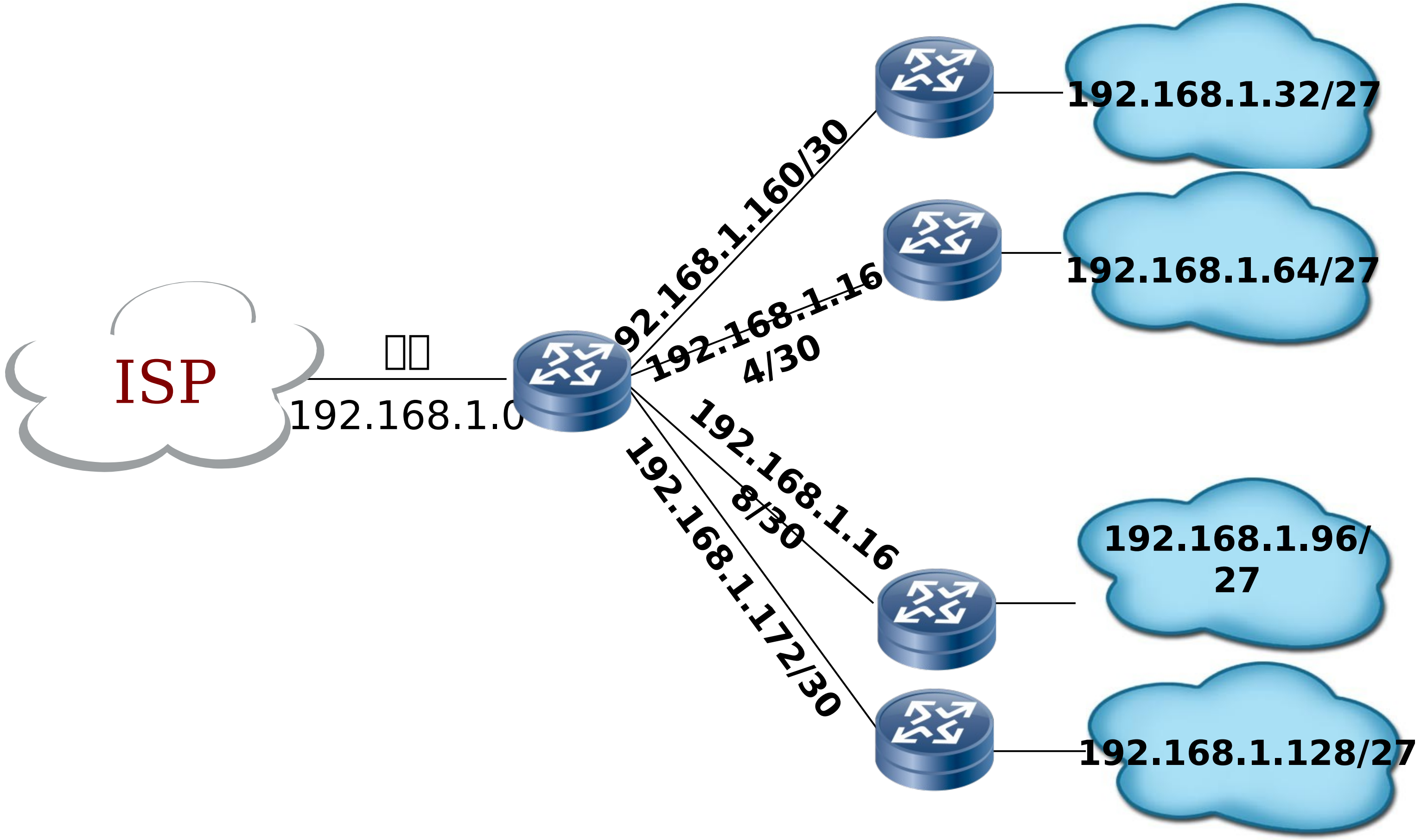
□□□□□□VLSM□



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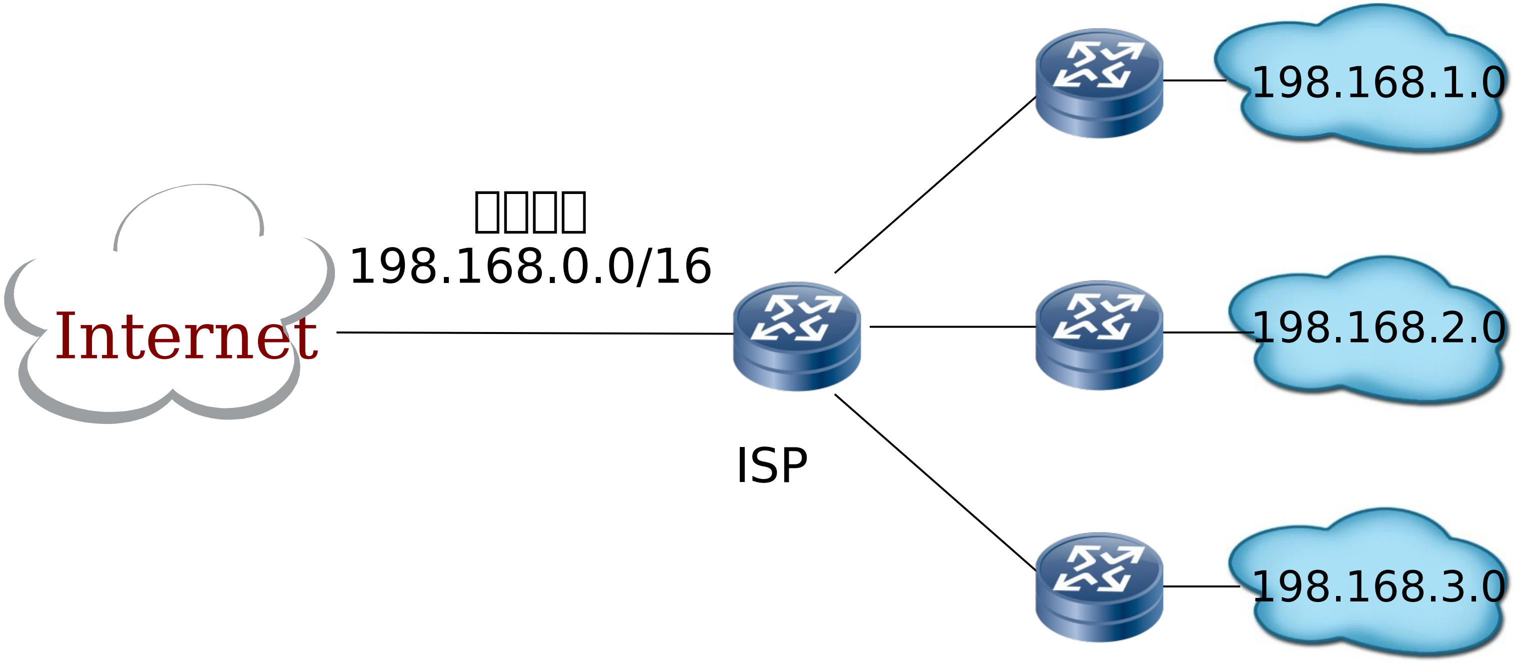
□□□□□□□ CIDR □

- CIDR (Classless Inter Domain Routing) □□□□□□□□

  □□□□□□□□□□□□□□



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□ □

- IP □□
- □□□□□
- □□□□□□□

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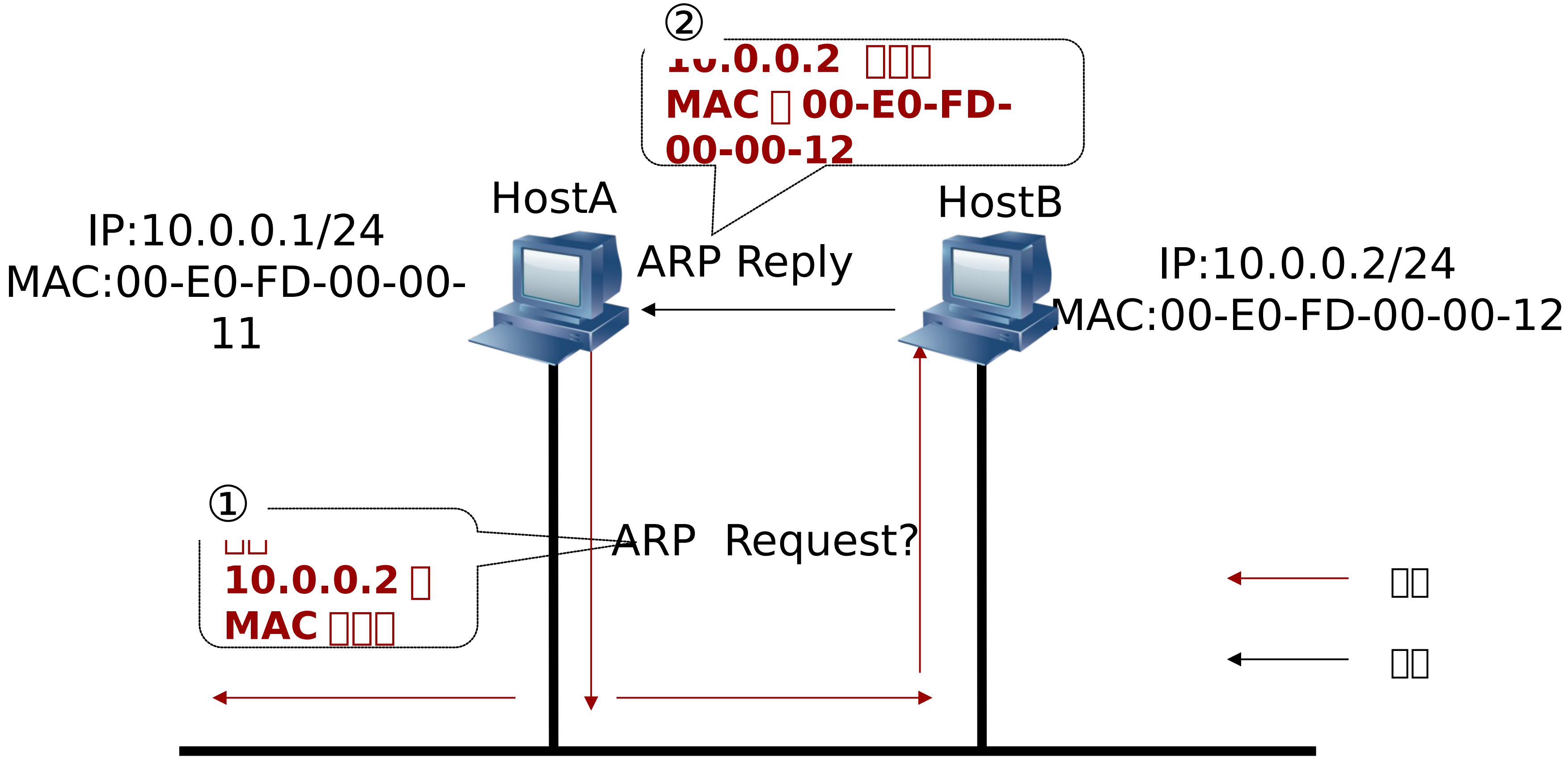
ARP

- ARP-- □□□□□□ (Address Resolution Protocol)



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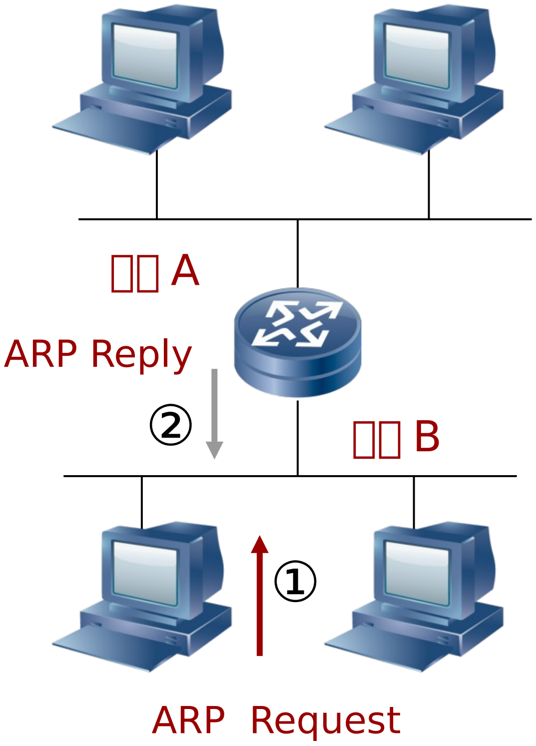
Proxy ARP

- [illegible] ARP [illegible] ARP [illegible] ARP [illegible] (Proxy ARP) [illegible]



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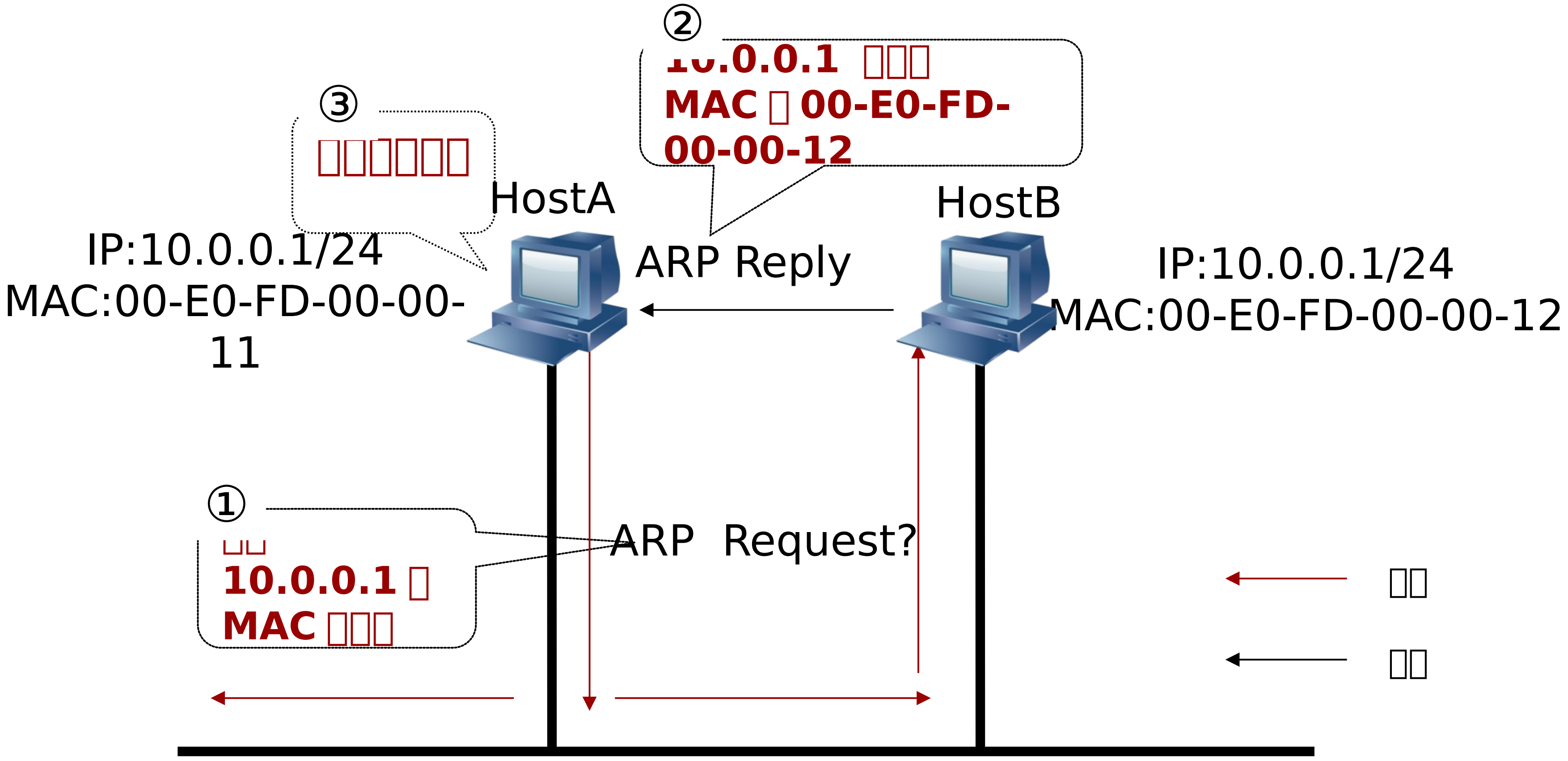
Gratuitous ARP



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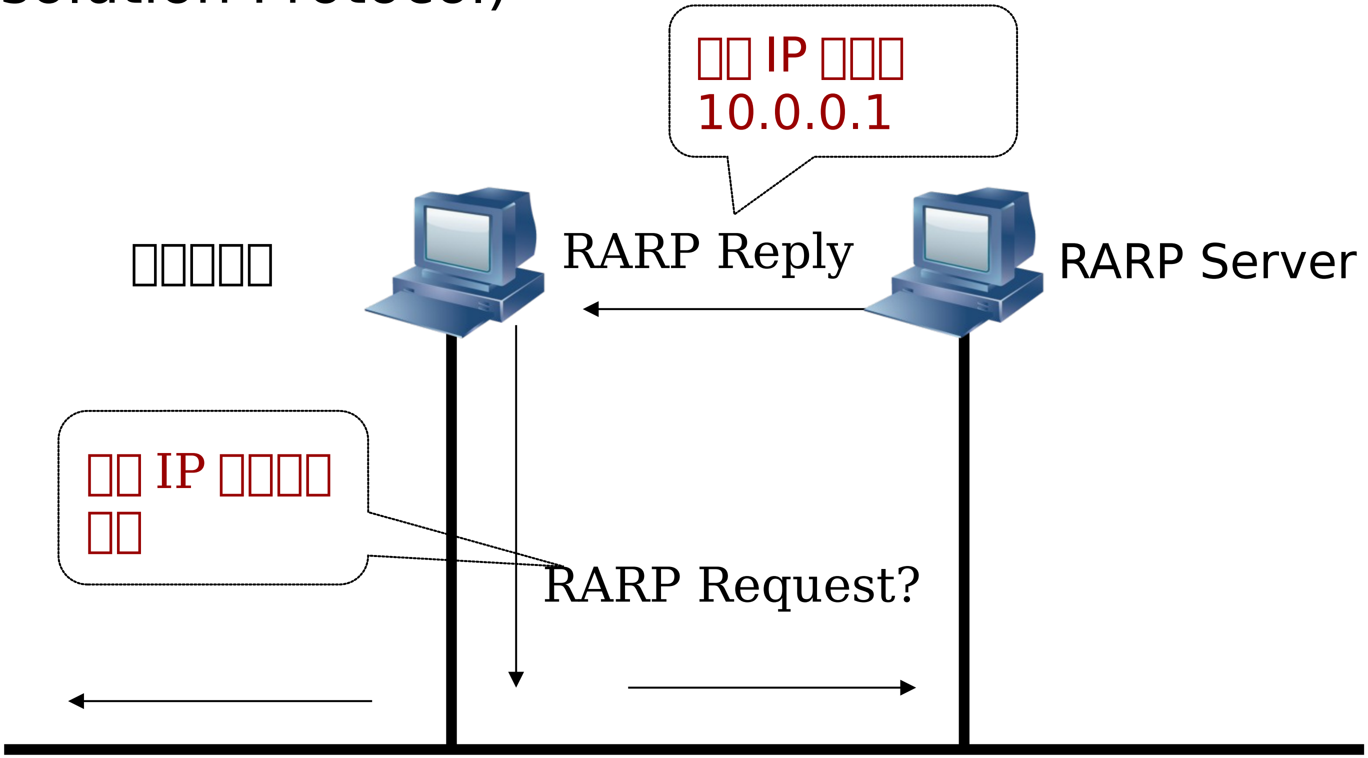
RARP

- RARP-- [illegible] (Reverse Address Resolution Protocol)



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[illegible]

- IP [illegible]
- [illegible]
- [illegible]

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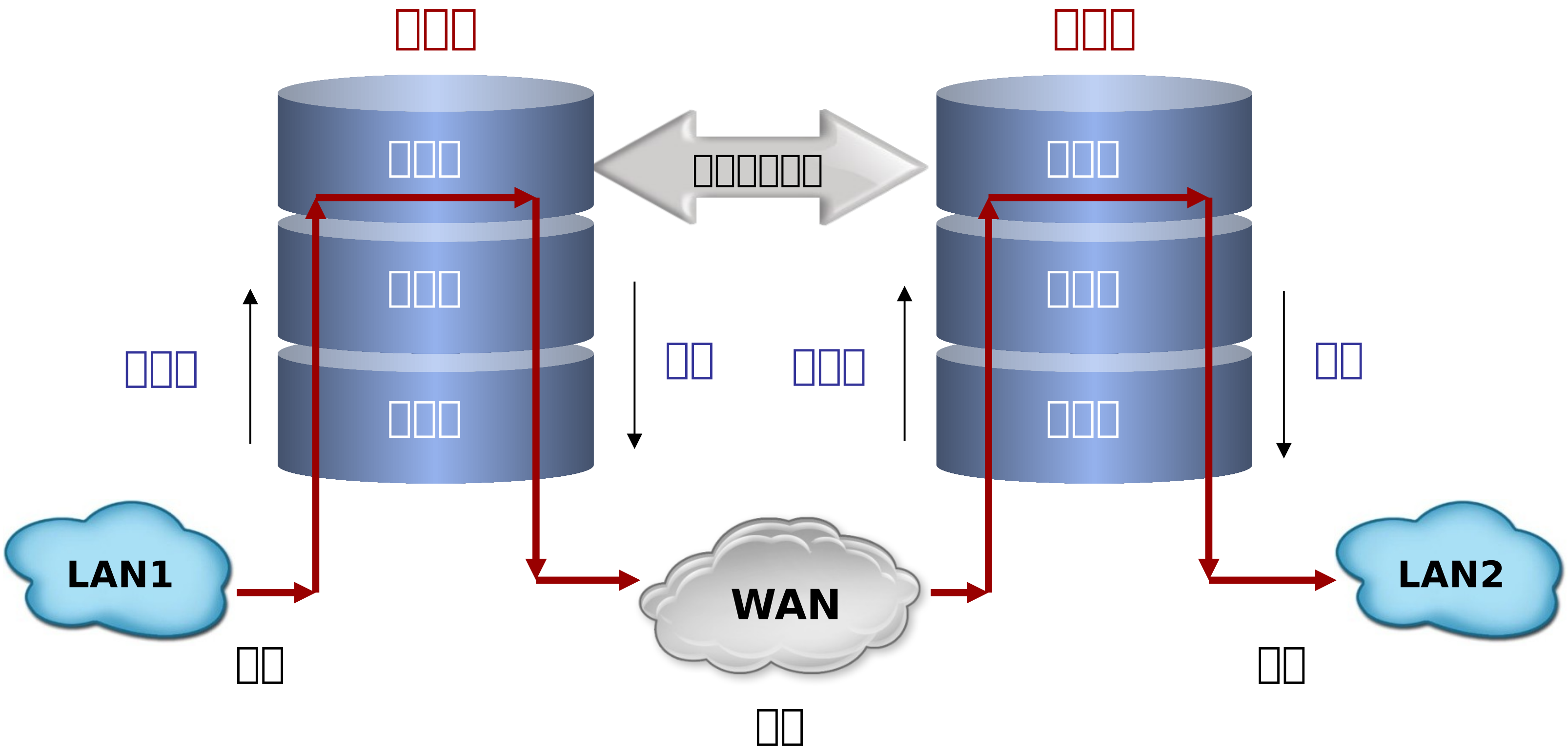

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[illegible]

- IP [illegible]
- ARP/RARP [illegible]
- [illegible]

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[illegible]

[illegible] (learning.huawei.com [illegible]

- **1 [illegible] E-learning [illegible]**
  - [illegible] **E-Learning** [illegible]
  - [illegible]“[illegible]”[illegible]“ email [illegible]”[illegible] *Learning@huawei.com* *[illegible]*
- **2 [illegible]**
  - [illegible] **+** [illegible]
  - [illegible]“[illegible] / [illegible]”[illegible]
- **3 [illegible] (LVC) [illegible]**
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- **4 [illegible] eNSP**
  - eNSP (Enterprise Network Simulation Platform), [illegible]
- [illegible], [illegible] [illegible][illegible][illegible]
  http://support.huawei.com/ecommunity/bbs/list_2247.html [illegible]

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